# **Statement of Basis of the Federal Operating Permit**

Ascend Performance Materials Texas Inc.

Site/Area Name: NTA

Physical location: Located on FM 2917 approximately 8 miles south of the intersection of Texas HWY 35 and

FM 2917 Nearest City: Alvin County: Brazoria

Permit Number: O1258 Project Type: Renewal

Standard Industrial Classification (SIC) Code: 2869 SIC Name: Industrial Organic Chemicals

This Statement of Basis sets forth the legal and factual basis for the draft permit conditions in accordance with 30 TAC §122.201(a)(4). Per 30 TAC §§ 122.241 and 243, the permit holder has submitted an application under § 122.134 for permit renewal. This document may include the following information:

A description of the facility/area process description;

A basis for applying permit shields;

A list of the federal regulatory applicability determinations;

A table listing the determination of applicable requirements;

A list of the New Source Review Requirements;

The rationale for periodic monitoring methods selected;

The rationale for compliance assurance methods selected;

A compliance status; and

A list of available unit attribute forms.

Prepared on: June 29, 2015

# Operating Permit Basis of Determination

#### **Permit Area Process Description**

The NTA (Nitrilotriacetic Acid) manufacturing process at Chocolate Bayou involves the production and hydrocyanation of Hexamethylenetraamine (HMTA) to nitrilotriacetonitrile (NTAN) and subsequent hydrolysis of NTAN to NTA solution. The NTA solution is further processed to yield NTA product in the powder form. HMTA production is continuous. Subsequent processing through NTAN hydrolysis is batch. The rest of the process is continuous. An excess of HMTA is produced to supply a companion unit (IDA) on site. Ammonia generated during hydrolysis is recovered and recycled. All process vents are routed to an incinerator.

NTA is produced in the powder form and the bulk of the product is shipped as-is in hopper cars. A small portion is re-slurred with water to make 40% NTA solution which is shipped in tank trucks.

#### **FOPs at Site**

The "application area" consists of the emission units and that portion of the site included in the application and this permit. Multiple FOPs may be issued to a site in accordance with 30 TAC § 122.201(e). When there is only one area for the site, then the application information and permit will include all units at the site. Additional FOPs that exist at the site, if any, are listed below.

Additional FOPs: 02260, 02318, 02321, 02322, 02323, 02324, 02325

# **Major Source Pollutants**

The table below specifies the pollutants for which the site is a major source:

	T	
Major Pollutants	VOC, NOX, HAPS, CO	

# Reading State of Texas's Federal Operating Permit

The Title V Federal Operating Permit (FOP) lists all state and federal air emission regulations and New Source Review (NSR) authorizations (collectively known as "applicable requirements") that apply at a particular site or permit area (in the event a site has multiple FOPs). **The FOP does not authorize new emissions or new construction activities.** The FOP begins with an introductory page which is common to all Title V permits. This page gives the details of the company, states the authority of the issuing agency, requires the company to operate in accordance with this permit and 30 Texas Administrative Code (TAC) Chapter 122, requires adherence with NSR requirements of 30 TAC Chapter 116, and finally indicates the permit number and the issuance date.

This is followed by the table of contents, which is generally composed of the following elements. Not all permits will have all of the elements.

- General Terms and Conditions
- Special Terms and Conditions
  - Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting
  - Additional Monitoring Requirements
  - o New Source Review Authorization Requirements
  - o Compliance Requirements
  - Protection of Stratosphere Ozone
  - Permit Location
  - o Permit Shield (30 TAC § 122.148)

#### Attachments

- o Applicable Requirements Summary
  - Unit Summary
  - Applicable Requirements Summary
- Additional Monitoring Requirements
- Permit Shield
- o New Source Review Authorization References
- o Compliance Plan
- Alternative Requirements
- Appendix A
  - o Acronym list

#### **General Terms and Conditions**

The General Terms and Conditions are the same and appear in all permits. The first paragraph lists the specific citations for 30 TAC Chapter 122 requirements that apply to all Title V permit holders. The second paragraph describes the requirements for record retention. The third paragraph provides details for voiding the permit, if applicable. The fourth paragraph states that the permit holder shall comply with the requirements of 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit. The fifth paragraph provides details on submission of reports required by the permit.

# **Special Terms and Conditions**

Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting. The TCEQ has designated certain applicable requirements as site-wide requirements. A site-wide requirement is a requirement that applies uniformly to all the units or activities at the site. Units with only site-wide requirements are addressed on Form OP-REQ1 and are not required to be listed separately on a OP-UA Form or Form OP-SUM. Form OP-SUM must list all units addressed in the application and provide identifying information, applicable OP-UA Forms, and preconstruction authorizations. The various OP-UA Forms provide the characteristics of each unit from which applicable requirements are established. Some exceptions exist as a few units may have both site-wide requirements and unit specific requirements.

Other conditions. The other entries under special terms and conditions are in general terms referring to compliance with the more detailed data listed in the attachments.

#### Attachments

Applicable Requirements Summary. The first attachment, the Applicable Requirements Summary, has two tables, addressing unit specific requirements. The first table, the Unit Summary, includes a list of units with applicable requirements, the unit type, the applicable regulation, and the requirement driver. The intent of the requirement driver is to inform the reader that a given unit may have several different operating scenarios and the differences between those operating scenarios.

The applicable requirements summary table provides the detailed citations of the rules that apply to the various units. For each unit and operating scenario, there is an added modifier called the "index number," detailed citations specifying monitoring and testing requirements, recordkeeping requirements, and reporting requirements. The data for this table are based on data supplied by the applicant on the OP-SUM and various OP-UA forms.

Additional Monitoring Requirement. The next attachment includes additional monitoring the applicant must perform to ensure compliance with the applicable standard. Compliance assurance monitoring (CAM) is often

required to provide a reasonable assurance of compliance with applicable emission limitations/standards for large emission units that use control devices to achieve compliance with applicant requirements. When necessary, periodic monitoring (PM) requirements are specified for certain parameters (i.e. feed rates, flow rates, temperature, fuel type and consumption, etc.) to determine if a term and condition or emission unit is operating within specified limits to control emissions. These additional monitoring approaches may be required for two reasons. First, the applicable rules do not adequately specify monitoring requirements (exception- Maximum Achievable Control Technology Standards (MACTs) generally have sufficient monitoring), and second, monitoring may be required to fill gaps in the monitoring requirements of certain applicable requirements. In situations where the NSR permit is the applicable requirement requiring extra monitoring for a specific emission unit, the preferred solution is to have the monitoring requirements in the NSR permit updated so that all NSR requirements are consolidated in the NSR permit.

Permit Shield. A permit may or may not have a permit shield, depending on whether an applicant has applied for, and justified the granting of, a permit shield. A permit shield is a special condition included in the permit document stating that compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirement(s) or specified applicable state-only requirement(s).

New Source Review Authorization References. All activities which are related to emissions in the state of Texas must have a NSR authorization prior to beginning construction. This section lists all units in the permit and the NSR authorization that allowed the unit to be constructed or modified. Units that do not have unit specific applicable requirements other than the NSR authorization do not need to be listed in this attachment. While NSR permits are not physically a part of the Title V permit, they are legally incorporated into the Title V permit by reference. Those NSR permits whose emissions exceed certain PSD/NA thresholds must also undergo a Federal review of federally regulated pollutants in addition to review for state regulated pollutants.

Compliance Plan. A permit may have a compliance schedule attachment for listing corrective actions plans for any emission unit that is out of compliance with an applicable requirement.

Alternative Requirements. This attachment will list any alternative monitoring plans or alternative means of compliance for applicable requirements that have been approved by the EPA Administrator and/or the TCEQ Executive Director.

#### Appendix A

Acronym list. This attachment lists the common acronyms used when discussing the FOPs.

# Stationary vents subject to 30 TAC Chapter 111, Subchapter A, § 111.111(a)(1)(B) addressed in the Special Terms and Conditions

The site contains stationary vents with a flowrate less than 100,000 actual cubic feet per minute (acfm) and constructed either before or after January 31, 1972 which are limited, over a six-minute average, to 20% opacity as required by 30 TAC § 111.111(a)(1)(B). As a site may have a large number of stationary vents that fall into this category, they are not required to be listed individually in the permit's Applicable Requirement Summary. This is consistent with EPA's White Paper for Streamlined Development of Part 70 Permit Applications, July 10, 1995, that states that requirements that apply identically to emission units at a site can be treated on a generic basis such as source-wide opacity limits.

Periodic monitoring is specified in Special Term and Condition 3 for stationary vents subject to 30 TAC § 111.111(a)(1)(B) to verify compliance with the 20% opacity limit. These vents are not expected to produce visible emissions during normal operation. The TCEQ evaluated the probability of these sources violating the opacity standards and determined that there is a very low potential that an opacity standard would be exceeded. It was determined that continuous monitoring for these sources is not warranted as there would be very limited environmental benefit in continuously monitoring sources that have a low potential to produce

visible emissions. Therefore, the TCEQ set the visible observation monitoring frequency for these sources to once per calendar quarter.

The TCEQ has exempted vents that are not capable of producing visible emissions from periodic monitoring requirements. These vents include sources of colorless VOCs, non-fuming liquids, and other materials that cannot produce emissions that obstruct the transmission of light. Passive ventilation vents, such as plumbing vents, are also included in this category. Since this category of vents are not capable of producing opacity due to the physical or chemical characteristics of the emission source, periodic monitoring is not required as it would not yield any additional data to assure compliance with the 20% opacity standard of 30 TAC § 111.111(a)(1)(B).

In the event that visible emissions are detected, either through the quarterly observation or other credible evidence, such as observations from company personnel, the permit holder shall either report a deviation or perform a Test Method 9 observation to determine the opacity consistent with the 6-minute averaging time specified in 30 TAC § 111.111(a)(1)(B). An additional provision is included to monitor combustion sources more frequently than quarterly if alternate fuels are burned for periods greater than 24 consecutive hours. This will address possible emissions that may arise when switching fuel types.

# **Federal Regulatory Applicability Determinations**

The following chart summarizes the applicability of the principal air pollution regulatory programs to the permit area:

Regulatory Program	Applicability (Yes/No)
Prevention of Significant Deterioration (PSD)	No
Nonattainment New Source Review (NNSR)	No
Minor NSR	Yes
40 CFR Part 60 - New Source Performance Standards	Yes
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants (NESHAPs)	Yes
40 CFR Part 63 - NESHAPs for Source Categories	Yes
Title IV (Acid Rain) of the Clean Air Act (CAA)	No
Title V (Federal Operating Permits) of the CAA	Yes
Title VI (Stratospheric Ozone Protection) of the CAA	Yes
CAIR (Clean Air Interstate Rule)	No

#### **Basis for Applying Permit Shields**

An operating permit applicant has the opportunity to specifically request a permit shield to document that specific applicable requirements do not apply to emission units in the permit. A permit shield is a special condition stating that compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements. A permit shield has been requested in the application for specific emission units. For the permit shield requests that have been approved, the basis of determination for regulations that the owner/operator need not comply with are located in the "Permit Shield" attachment of the permit.

#### **Insignificant Activities**

In general, units not meeting the criteria for inclusion on either Form OP-SUM or Form OP-REQ1 are not required to be addressed in the operating permit application. Examples of these types of units include, but are not limited to, the following:

- 1. Office activities such as photocopying, blueprint copying, and photographic processes.
- 2. Sanitary sewage collection and treatment facilities other than those used to incinerate wastewater treatment plant sludge. Stacks or vents for sanitary sewer plumbing traps are also included.
- 3. Food preparation facilities including, but not limited to, restaurants and cafeterias used for preparing food or beverages primarily for consumption on the premises.
- 4. Outdoor barbecue pits, campfires, and fireplaces.
- 5. Laundry dryers, extractors, and tumblers processing bedding, clothing, or other fabric items generated primarily at the premises. This does not include emissions from dry cleaning systems using perchloroethylene or petroleum solvents.
- 6. Facilities storing only dry, sweet natural gas, including natural gas pressure regulator vents.
- 7. Any air separation or other industrial gas production, storage, or packaging facility. Industrial gases, for purposes of this list, include only oxygen, nitrogen, helium, neon, argon, krypton, and xenon.
- 8. Storage and handling of sealed portable containers, cylinders, or sealed drums.
- 9. Vehicle exhaust from maintenance or repair shops.
- 10. Storage and use of non-VOC products or equipment for maintaining motor vehicles operated at the site (including but not limited to, antifreeze and fuel additives).
- 11. Air contaminant detectors and recorders, combustion controllers and shut-off devices, product analyzers, laboratory analyzers, continuous emissions monitors, other analyzers and monitors, and emissions associated with sampling activities. Exception to this category includes sampling activities that are deemed fugitive emissions and under a regulatory leak detection and repair program.
- 12. Bench scale laboratory equipment and laboratory equipment used exclusively for chemical and physical analysis, including but not limited to, assorted vacuum producing devices and laboratory fume hoods.
- 13. Steam vents, steam leaks, and steam safety relief valves, provided the steam (or boiler feedwater) has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
- 14. Storage of water that has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
- 15. Well cellars.
- 16. Fire or emergency response equipment and training, including but not limited to, use of fire control equipment including equipment testing and training, and open burning of materials or fuels associated with firefighting training.
- 17. Crucible or pot furnaces with a brim full capacity of less than 450 cubic inches of any molten metal.
- 18. Equipment used exclusively for the melting or application of wax.
- 19. All closed tumblers used for the cleaning or deburring of metal products without abrasive blasting, and all open tumblers with a batch capacity of 1,000 lbs. or less.
- 20. Shell core and shell mold manufacturing machines.
- 21. Sand or investment molds with a capacity of 100 lbs. or less used for the casting of metals;
- 22. Equipment used for inspection of metal products.
- 23. Equipment used exclusively for rolling, forging, pressing, drawing, spinning, or extruding either hot or cold metals by some mechanical means.
- 24. Instrument systems utilizing air, natural gas, nitrogen, oxygen, carbon dioxide, helium, neon, argon, krypton, and xenon.
- 25. Battery recharging areas.
- 26. Brazing, soldering, or welding equipment.

## **Determination of Applicable Requirements**

The tables below include the applicability determinations for the emission units, the index number(s) where applicable, and all relevant unit attribute information used to form the basis of the applicability determination. The unit attribute information is a description of the physical properties of an emission unit which is used to determine the requirements to which the permit holder must comply. For more information about the descriptions of the unit attributes specific Unit Attribute Forms may be viewed at <a href="https://www.tceq.texas.gov/permitting/air/nav/air\_all\_ua\_forms.html">www.tceq.texas.gov/permitting/air/nav/air\_all\_ua\_forms.html</a>.

A list of unit attribute forms is included at the end of this document. Some examples of unit attributes include construction date; product stored in a tank; boiler fuel type; etc.. Generally, multiple attributes are needed to determine the requirements for a given emission unit and index number. The table below lists these attributes in the column entitled "Basis of Determination." Attributes that demonstrate that an applicable requirement applies will be the factual basis for the specific citations in an applicable requirement that apply to a unit for that index number. The TCEQ Air Permits Division has developed flowcharts for determining applicability of state and federal regulations based on the unit attribute information in a Decision Support System (DSS). These flowcharts can be accessed via the internet at

www.tceq.texas.gov/permitting/air/nav/air\_supportsys.html. The Air Permits Division staff may also be contacted for assistance at (512) 239-1250.

The attributes for each unit and corresponding index number provide the basis for determining the specific legal citations in an applicable requirement that apply, including emission limitations or standards, monitoring, recordkeeping, and reporting. The rules were found to apply or not apply by using the unit attributes as answers to decision questions found in the flowcharts of the DSS. Some additional attributes indicate which legal citations of a rule apply. The legal citations that apply to each emission unit may be found in the Applicable Requirements Summary table of the draft permit. There may be some entries or rows of units and rules not found in the permit, or if the permit contains a permit shield, repeated in the permit shield area. These are sets of attributes that describe negative applicability, or; in other words, the reason why a potentially applicable requirement does not apply.

If applicability determinations have been made which differ from the available flowcharts, an explanation of the decisions involved in the applicability determination is specified in the column "Changes and Exceptions to RRT." If there were no exceptions to the DSS, then this column has been removed.

The draft permit includes all emission limitations or standards, monitoring, recordkeeping and reporting required by each applicable requirement. If an applicable requirement does not require monitoring, recordkeeping, or reporting, the word "None" will appear in the Applicable Requirements Summary table. If additional periodic monitoring is required for an applicable requirement, it will be explained in detail in the portion of this document entitled "Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected."

When attributes demonstrate that a unit is not subject to an applicable requirement, the applicant may request a permit shield for those items. The portion of this document entitled "Basis for Applying Permit Shields" specifies which units, if any, have a permit shield.

# Operational Flexibility

When an emission unit has multiple operating scenarios, it will have a different index number associated with each operating condition. This means that units are permitted to operate under multiple operating conditions. The applicable requirements for each operating condition are determined by a unique set of unit attributes. For example, a tank may store two different products at different points in time. The tank may, therefore, need to comply with two distinct sets of requirements, depending on the product that is stored. Both sets of requirements are included in the permit, so that the permit holder may store either product in the tank.

# **Determination of Applicable Requirements**

Unit ID	Regulation	Index Number	Basis of Determination*
55EG1	30 TAC Chapter 117, Subchapter B	R7201-7	Type of Service = New, modified, reconstructed or relocated diesel fuel-fired engine, placed into service on or after October 1, 2001, located in the Houston/Galveston/Brazoria ozone nonattainment area, operated less than 100 hours/year, on a rolling 12-month average
55EG1	40 CFR Part 60, Subpart IIII	60IIII	Applicability Date = Stationary CI ICE commenced construction, reconstruction, or modification after July 11, 2005.  Diesel = Diesel fuel is used.  Kilowatts = Power rating greater than or equal to 130 KW and less than or equal to 368 KW.  Exemptions = The CI ICE is not exempt due to national security, testing at an engine test cell/stand or as a temporary replacement.  Displacement = Displacement is less than 10 liters per cylinder and engine is a constant-speed engine.  Service = CI ICE is an emergency engine.  Standards = The emergency CI ICE meets the standards applicable to non-emergency engines.  Commencing = CI ICE that is commencing new construction.  Compliance Option = The CI ICE and control device is installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions.
			Manufacture Date = Date of manufacture is after 04/01/2006.  Model Year = CI ICE was manufactured in model year 2010.
55EG1	40 CFR Part 63, Subpart ZZZZ	63ZZZZ-1	HAP Source = Any stationary source or group of stationary sources of hazardous air pollutants meeting the definition of a major source as described in 40 CFR § 63.2.  Brake HP = Stationary RICE with a brake hp greater than or equal to 100 and less than 250 hp.  Construction/Reconstruction Date = Commenced construction or reconstruction on or after June 12, 2006.  Service Type = Emergency use where the RICE does not operate or is not contractually obligated to be available for more than 15 hours per calendar year as specified in 40 CFR §63.6640(f)(2)(ii)-(iii) or does not operate as specified in 40 CFR §63.6640(f)(4)(ii).
320T552	30 TAC Chapter 115, Storage of VOCs	R5112-97	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.  Product Stored = Other than crude oil, condensate, or VOC
320T552	40 CFR Part 60, Subpart Kb	60KB-96	Product Stored = Stored product other than volatile organic liquid or petroleum liquid
55F1	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55F2-1	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55F2-2	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55F2-3	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55F2-4	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55S101	30 TAC Chapter	R5112-25	Today's Date = Today's date is March 1, 2013 or later.

Unit ID	Regulation	Index Number	Basis of Determination*	
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.	
			Product Stored = VOC other than crude oil or condensate	
			Storage Capacity = Capacity is less than or equal to 1,000 gallons	
55S101	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973	
55S102	30 TAC Chapter	R5112-26	Today's Date = Today's date is March 1, 2013 or later.	
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.	
			Product Stored = VOC other than crude oil or condensate	
			Storage Capacity = Capacity is less than or equal to 1,000 gallons	
55S102	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973	
55S103	30 TAC Chapter	R5112-27	Today's Date = Today's date is March 1, 2013 or later.	
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.	
			Product Stored = VOC other than crude oil or condensate	
			Storage Capacity = Capacity is less than or equal to 1,000 gallons	
55S103	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973	
55S104	30 TAC Chapter		R5112-28	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.	
			Product Stored = VOC other than crude oil or condensate	
			Storage Capacity = Capacity is less than or equal to 1,000 gallons	
55S104	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973	
55T10	30 TAC Chapter	R5112-17	Today's Date = Today's date is March 1, 2013 or later.	
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.	
			Product Stored = Other than crude oil, condensate, or VOC	
55T10	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973	
55T12	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973	
55T14	30 TAC Chapter	R5112-23	Today's Date = Today's date is March 1, 2013 or later.	
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.	

Unit ID	Regulation	Index Number	Basis of Determination*
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is less than or equal to 1,000 gallons
55T15-1	30 TAC Chapter	R5112-14	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a vapor recovery system (VRS)
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
			Control Device Type = Other vapor recovery unit
55T15-1	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55T15-2	30 TAC Chapter	R5112-14	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a vapor recovery system (VRS)
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
			Control Device Type = Other vapor recovery unit
55T15-2	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55T15-3	30 TAC Chapter	R5112-9	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a vapor recovery system (VRS)
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
			Control Device Type = Other vapor recovery unit
55T15-3	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55T15-4	30 TAC Chapter	R5112-14	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a vapor recovery system (VRS)
			True Vapor Pressure = True vapor pressure is less than 1.0 psia

Unit ID	Regulation	Index Number	Basis of Determination*
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
			Control Device Type = Other vapor recovery unit
55T15-4	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55T15-5	30 TAC Chapter	R5112-10	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a vapor recovery system (VRS)
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
			Control Device Type = Other vapor recovery unit
55T15-5	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55T16	30 TAC Chapter	R5112-13	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Tank Description = Tank using a vapor recovery system (VRS)
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
			Control Device Type = Other vapor recovery unit
55T16	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55T18	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55T2	30 TAC Chapter 115, Storage of	R5112-1	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
	VOCs		Tank Description = Tank using a vapor recovery system (VRS)
			True Vapor Pressure = True vapor pressure is less than 1.0 psia
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons
			Control Device Type = Direct-flame incinerator
55T2	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55T2	40 CFR Part 63,	63G-1	MACT Subpart F/G Applicability = The unit is a Group 2 vessel.

Unit ID	Regulation	Index Number	Basis of Determination*
	Subpart G		NESHAP Subpart Y Applicability = The unit is not subject to 40 CFR Part 61, Subpart Y.
			NSPS Subpart Kb Applicability = The unit is not subject to 40 CFR Part 60, Subpart Kb.
55T20	30 TAC Chapter	R5112-22	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is less than or equal to 1,000 gallons
55T26	30 TAC Chapter	R5112-20	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is less than or equal to 1,000 gallons
55T30	30 TAC Chapter	R5112-24	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is less than or equal to 1,000 gallons
55T30	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55T37	30 TAC Chapter	R5112-19	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is less than or equal to 1,000 gallons
55T4	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55T5	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55T6	30 TAC Chapter	R5112-18	Today's Date = Today's date is March 1, 2013 or later.
	115, Storage of VOCs		Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.
			Product Stored = VOC other than crude oil or condensate
			Storage Capacity = Capacity is less than or equal to 1,000 gallons
55T6	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
55T7	40 CFR Part 60,	60KB-7	Product Stored = Volatile organic liquid
	Subpart Kb		Storage Capacity = Capacity is greater than or equal to 19,800 gallons (75,000 liters) but less than 39,900 gallons (151,000 liters)

Unit ID	Regulation	Index Number	Basis of Determination*
			Maximum True Vapor Pressure = True vapor pressure is less than 2.2 psia
55T8	30 TAC Chapter 115, Storage of VOCs	R5112-16	Today's Date = Today's date is March 1, 2013 or later.  Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.  Product Stored = Other than crude oil, condensate, or VOC
55T8	40 CFR Part 60, Subpart K	60K	Construction/Modification Date = On or before June 11, 1973
60T41	30 TAC Chapter 115, Storage of VOCs	R5112-6	Today's Date = Today's date is March 1, 2013 or later.  Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.  Product Stored = Other than crude oil, condensate, or VOC
SOL-LOAD	30 TAC Chapter 115, Loading and Unloading of VOC	R5211-1	Chapter 115 Facility Type = Facility type other than a gasoline terminal, gasoline bulk plant, motor vehicle fuel dispensing facility or marine terminal.  Alternate Control Requirement (ACR) = No alternate control requirements are being utilized.  Product Transferred = Volatile organic compounds other than liquefied petroleum gas and gasoline.  Transfer Type = Only loading.  True Vapor Pressure = True vapor pressure less than 0.5 psia.
55H1	40 CFR Part 63, Subpart DDDDD	63DDDDD-1	CONSTRUCTION/RECONSTRUCTION DATE = Construction or reconstruction began on or before June 4, 2010.
H-FNTA	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	R5352-1	Agitators = The fugitive unit contains agitators.  Components Utilizing Alternative Work Practice in § 115.358 = No components in the fugitive unit are using the alternative work practice under § 115.358.  Compressor Seals = The fugitive unit does not contain compressor seals.  Flanges = The fugitive unit contains flanges.  Open-ended Valves = The fugitive unit does not contain open-ended valves.  Pressure Relief Valves = The fugitive unit contains pressure relief valves.  Process Drains = The fugitive unit has process drains.  Pump Seals = The fugitive unit has no pressure relief valves equipped with rupture disks.  Title 30 TAC § 115.352 Applicable = Site is a petroleum refinery, synthetic organic chemical, polymer resin or methyl tert-butyl ether manufacturing process or a natural gas/gasoline processing operation as defined in 30 TAC 115.10.  Valves (other than pressure relief and open-ended) = The fugitive unit contains valves other than pressure relief valves or open-ended valves or lines.  Alternate Control Requirement = The TCEQ Executive Director has not approved an alternate method for demonstrating and documenting continuous compliance with an alternate control requirement or exemption criteria for agitators or no alternate has been requested.  Instrumentation Systems = The fugitive unit has instrumentation systems, as defined in 40 CFR § 63.161, that meet 40 CFR § 63.169.  Less Than 250 Components at Site = Fugitive unit has sampling connection systems, as defined in 40 CFR § 63.161, that meet 40 CFR § 63.169.

Unit ID	Regulation	Index Number	Basis of Determination*
			Weight Percent VOC = All components contact a process fluid that contains greater than or equal to 10% VOC by weight.
			Complying with $\S$ 115.352(1) = Valves are complying with $\S$ 115.352(1).
			Complying With § 115.352(1) = Pressure relief valves are complying with § 115.352(1).
			Complying With § 115.352(1) = Agitators are complying with § 115.352(1).
İ			Complying with 30 TAC § 115.352(1) = Flanges are complying with the requirements in 30 TAC § 115.352(1).
			Reciprocating Compressors Or Positive Displacement Pumps = The fugitive unit does not have reciprocating compressors or positive displacement pumps used in natural gas/gasoline processing operations.
			Shaft Seal System = Pump seals are not equipped with a shaft seal system that prevents or detects emission of VOC from the seal.
			TVP 0.002 PSIA or Less = The fugitive unit does not have components or systems that contact a process fluid containing VOC having a true vapor pressure less than or equal to 0.002 psia at 68 degrees Fahrenheit.
			TVP of Process Fluid VOC <= 0.044 psia at 68° F = Pressure relief valves contact a process fluid with a TVP of less than or equal to 0.044 psia at 68° F.
			TVP of Process Fluid VOC <= 0.044 PSIA AT 68° F = Process drains contact a process fluid containing VOC having a true vapor pressures less than or equal to 0.044 psia at 68 degrees Fahrenheit.
			TVP of Process Fluid VOC $<= 0.044$ PSIA AT $68\square^{\circ}$ F = Flanges contact a process fluid containing VOC having a true vapor pressures less than or equal to 0.044 psia at $68$ degrees Fahrenheit.
			Complying with 30 TAC § 115.352(1) = Pump seals are complying with the requirements in 30 TAC § 115.352(1).
			TVP of Process Fluid VOC > 0.044 psia at 68° F = No agitators contact a process fluid with a TVP greater than 0.044 psia at 68° F.
			TVP of Process Fluid VOC > 0.044 PSIA AT 68° F = Flanges do not contact a process fluid containing VOC having a TVP greater than 0.044 psia at 68 degrees Fahrenheit.
H-FNTA	40 CFR Part 63,	63H-1	ANY (CLOSED VENT SYSTEMS) = COMPONENT NOT PRESENT
	Subpart H		ANY (OPEN-ENDED VALVES OR LINES) = COMPONENT PRESENT
			BYPASS LINES = FUGITIVE UNIT WITH A CLOSED-VENT SYSTEM DOES NOT CONTAIN A BY-PASS LINE THAT COULD DIVERT A VENT STREAM AWAY FROM THE CONTROL DEVICE AND TO THE ATMOSPHERE
			EQUIPMENT TYPE = FUGITIVE UNIT CONTAINS EQUIPMENT LISTED IN 40 CFR $\S$ 63.160(A) WHICH IS OPERATED IN ORGANIC HAZARDOUS AIR POLLUTANT SERVICE
			GAS/VAPOR OR LIGHT LIQUID SERVICE (AGITATORS) = COMPONENT NOT PRESENT
			LIGHT LIQUID SERVICE (PUMPS) = COMPONENT NOT PRESENT
İ			HEAVY LIQUID SERVICE (AGITATORS) = COMPONENT NOT PRESENT
			HEAVY LIQUID SERVICE (OPEN-ENDED VALVES OR LINES) = COMPONENT NOT PRESENT
			HEAVY LIQUID SERVICE (PUMPS) = COMPONENT NOT PRESENT
			NON RESEARCH AND DEVELOPMENT/BATCH PROCESSES = FUGITIVE UNIT CONTAINS PROCESSES OTHER THAN RESEARCH AND DEVELOPMENT FACILITIES AND BENCH-SCALE BATCH PROCESSES
			UNSAFE TO INSPECT = FOR A FUGITIVE UNIT THAT CONTAINS ANY CLOSED-VENT SYSTEM, THERE ARE NO PARTS DESIGNATED AS UNSAFE TO INSPECT
			ANY (INSTRUMENTATION SYSTEMS) = COMPONENT PRESENT
			DIFFICULT TO INSPECT = FUGITIVE UNIT CONTAINS ANY CLOSED-VENT SYSTEM WITH PARTS DESIGNATED AS DIFFICULT TO INSPECT
			GAS/VAPOR OR LIGHT LIQUID SERVICE (VALVES) = COMPONENT PRESENT
			QIP = UNIT DOES NOT OPT TO COMPLY WITH A QUALITY IMPROVEMENT PROGRAM FOR PUMPS

Unit ID	Regulation	Index Number	Basis of Determination*
			VACUUM SERVICE = NOT ALL OF THE EQUIPMENT IN THE FUGITIVE UNIT IS IN VACUUM SERVICE
			ANY (COMPRESSORS) = COMPONENT NOT PRESENT
			HEAVY LIQUID SERVICE (INSTRUMENTATION SYSTEMS = COMPONENT NOT PRESENT
			HEAVY LIQUID SERVICE (VALVES) = COMPONENT NOT PRESENT
			LESS THAN 300 OPERATING HOURS = THE FUGITIVE UNIT DOES NOT CONTAIN ANY EQUIPMENT IN ORGANIC HAZARDOUS AIR POLLUTANT (HAP) SERVICE THAT IS INTENDED TO OPERATE LESS THAN 300 HOURS PER CALENDAR YEAR
			ANY (SURGE CONTROL VESSELS OR BOTTOMS RECEIVERS) = COMPONENT NOT PRESENT
			GAS VAPOR SERVICE (PRESSURE RELIEF DEVICES) = COMPONENT NOT PRESENT
			QIP = UNIT DOES NOT OPT TO COMPLY WITH A QUALITY IMPROVEMENT PROGRAM FOR VALVES
			AMEL = FUGITIVE UNIT SOURCE OWNER/OPERATOR IS NOT ELECTING TO COMPLY WITH AN ALTERNATIVE MEANS OF EMISSION LIMITATION (AMEL)
			GAS/VAPOR OR LIGHT LIQUID SERVICE (CONNECTORS) = COMPONENT PRESENT
			HEAVY LIQUID SERVICE (SURGE CONTROL VESSELS OR BOTTOMS RECEIVERS) = COMPONENT NOT PRESENT
			LIQUID SERVICE (PRESSURE RELIEF DEVICES) = COMPONENT PRESENT
			HEAVY LIQUID SERVICE (CONNECTORS) = COMPONENT NOT PRESENT
			HEAVY LIQUID SERVICE (PRESSURE RELIEF DEVICES) = COMPONENT NOT PRESENT
			ANY (SAMPLING CONNECTION SYSTEMS) = COMPONENT NOT PRESENT
			HEAVY LIQUID SERVICE (SAMPLING CONNECTION SYSTEMS) = COMPONENT NOT PRESENT
H-FNTA	40 CFR Part 63,	63YY	Source Type = Cyanide Chemicals Production.
	Subpart YY		Equipment Type = The fugitive unit contains equipment, as defined in § 63.1101, contacting hazardous air pollutants in Tables 1 through 7 or Table 9, as appropriate.
GRP NTA-	30 TAC Chapter	R5121-3	Alternate Control Requirement = Alternate control is not used.
CMPUH2	115, Vent Gas Controls		Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Control Device Type = Direct flame incinerator in which the vent gas stream is burned at a temperature or at least 1300° F (704 C).
			Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not specifically classified under the rule.
GRP NTA- CMPUK1	30 TAC Chapter 115, Vent Gas	R5121-2	Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.
	Controls		Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not specifically classified under the rule.
			VOC Concentration = VOC concentration is less than 612 ppmv.
			VOC Concentration/Emission Rate @ Max Operating Conditions = The VOC concentration or emission rate is less than the applicable exemption limit at maximum actual operating conditions and the alternate recordkeeping requirements of 30 TAC § 115.126(4) are being selected.
НМТА	30 TAC Chapter	R5121-1	Alternate Control Requirement = Alternate control is not used.
CMPU	115, Vent Gas Controls		Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.

Unit ID	Regulation	Index Number	Basis of Determination*
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a noncombustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.
			Control Device Type = Direct flame incinerator in which the vent gas stream is burned at a temperature or at least 1300° F (704 C).
			Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10.
НМТА	40 CFR Part 63,		Overlap = Title 40 CFR Part 63, Subpart G only
CMPU	Subpart G		Group 1 = The process vent is a Group 2 process vent.
			HAP Concentration = HAP concentration is not needed to determine applicability.
			Flow Rate = Flow rate is not needed to determine applicability.
			MACT TRE Index Value = TRE index value is greater than 4.0 as calculated using the procedures of 40 CFR § 63.115(d).
55R4	30 TAC Chapter	R5142-2	Petroleum Refinery = The affected source category is not a petroleum refinery.
	115, Industrial Wastewater		Wastewater Component Type = The component is not a wet weather retention basin, exempted by §115.147(2), not a biotreatment unit.
	wastewater		Alternate Control Requirement = An alternate control requirement (ACR) or exemption criteria in accordance with 30 TAC § 115.910 is not used.
			Roof or Seal Type = The wastewater component does not have a floating roof or internal floating roof.
			Control Devices = Enclosed non-catalytic combustion device.
			90% Overall Control Option = The unit is complying with the control requirements of 30 TAC § 115.142.
			Monitoring Type = The monitoring requirements of 30 TAC §§ 115.144(3)(A) - (H) are being used.
			Safety Hazard Exemption = No safety hazard exemption has been requested or none has been approved.
55T36	30 TAC Chapter		Petroleum Refinery = The affected source category is not a petroleum refinery.
	115, Industrial Wastewater		Wastewater Component Type = The component is not a wet weather retention basin, exempted by §115.147(2), not a biotreatment unit.
	wastewater		Alternate Control Requirement = An alternate control requirement (ACR) or exemption criteria in accordance with 30 TAC § 115.910 is not used.
			Roof or Seal Type = The wastewater component does not have a floating roof or internal floating roof.
			90% Overall Control Option = The unit is complying with the control requirements of 30 TAC § 115.142.
			Safety Hazard Exemption = No safety hazard exemption has been requested or none has been approved.
GRPHMTA- XCHNGR	40 CFR Part 63, Subpart F	63F-1	Applicable Chemicals = The chemical manufacturing process unit manufactures, as a primary product, one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or 40 CFR § 63.100(b)(1)(ii).
			Intervening Cooling Fluid = There is no intervening cooling fluid containing less than 5 percent by weight of total HAPs listed in Table 4 of 40 CFR Part 63, Subpart F, between the process and cooling water.
			Table 2 HAP = The chemical manufacturing process unit uses as a reactant or manufactures, as a product or co-product, one or more of the organic hazardous air pollutants in Table 2.
			Table 4 HAP Content = The recirculating heat exchange system is used exclusively to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of title 40 CFR Part 63, Subpart F.
			Alternate Means of Emission Limitation = No alternative means of emission limitation has been approved by the EPA Administrator to achieve a reduction in organic HAP emission or no alternate has been requested.
			Heat Exchange System = A heat exchange system is utilized.
			Cooling Water Pressure = The heat exchange system is not operated with the minimum pressure on the cooling water side at least 35 kilopascals greater than the maximum pressure on the process side.
НМТА	40 CFR Part 63,	63F-1	Applicable Chemicals = The chemical manufacturing process unit manufactures, as a primary product, one or more of the chemicals listed in 40

Unit ID	Regulation	Index Number	Basis of Determination*	
CMPU	Subpart F		CFR § 63.100(b)(1)(i) or 40 CFR § 63.100(b)(1)(ii).	
			Intervening Cooling Fluid = There is no intervening cooling fluid containing less than 5 percent by weight of total HAPs listed in Table 4 of 40 CFR Part 63, Subpart F, between the process and cooling water.	
			Table 2 HAP = The chemical manufacturing process unit uses as a reactant or manufactures, as a product or co-product, one or more of the organic hazardous air pollutants in Table 2.	
			Table 4 HAP Content = The recirculating heat exchange system is used exclusively to cool process fluids that contain less than 5 percent by weight of total HAPs listed in Table 4 of title 40 CFR Part 63, Subpart F.	
			Alternate Means of Emission Limitation = No alternative means of emission limitation has been approved by the EPA Administrator to achieve a reduction in organic HAP emission or no alternate has been requested.	
			Heat Exchange System = A heat exchange system is utilized.	
			Cooling Water Pressure = The heat exchange system is not operated with the minimum pressure on the cooling water side at least 35 kilopascals greater than the maximum pressure on the process side.	
NTA CMPU	40 CFR Part 63, Subpart F	63F-11	Applicable Chemicals = The chemical manufacturing process unit does not manufacture, as a primary product, one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or 40 CFR § 63.100(b)(1)(ii).	
NTA CMPU	40 CFR Part 63,	63FFFF	Designated Grp1 = The emission stream is designated as Group 1.	
	Subpart FFFF		HAL Device Type = No halogen scrubber or other halogen reduction device is used.	
			Meets $63.988(b)(2)$ = The control device does not meet the criteria in § $63.988(b)(2)$ .	
			Small Device = A small control device (defined in § 63.2550) is not being used.	
			Designated HAL = The emission stream is not designated as halogenated.	
				Vent Emission Control = Reduce uncontrolled organic HAP emissions from all batch process vents within the process to an outlet concentration of 20 ppmv or less as TOC or total organic HAP by venting to any combination of control devices except a flare.
			Determined HAL = The emission stream is determined not to be halogenated.	
			Prior Eval = The data from a prior evaluation or assessment is not used.	
			Alt 63SS Mon Parameters = Alternate monitoring parameters or requirements have not been approved by the Administrator or have not been requested.	
			Assessment Waiver = The Administrator has not granted a waiver of compliance assessment or no waiver has been requested.	
			CEMS = A CEMS is not used.	
			Formaldehyde = The stream contains formaldehyde.	
			Negative Pressure = The closed vent system is operated and maintained at atmospheric pressure.	
			SS Device Type = Incinerator other than a catalytic incinerator.	
			Bypass Line = No bypass lines.	

<sup>\* -</sup> The "unit attributes" or operating conditions that determine what requirements apply

#### **NSR Versus Title V FOP**

The state of Texas has two Air permitting programs, New Source Review (NSR) and Title V Federal Operating Permits. The two programs are substantially different both in intent and permit content.

NSR is a preconstruction permitting program authorized by the Texas Clean Air Act and Title I of the Federal Clean Air Act (FCAA). The processing of these permits is governed by 30 Texas Administrative Code (TAC) Chapter 116.111. The Title V Federal Operating Program is a federal program authorized under Title V of the FCAA that has been delegated to the state of Texas to administer and is governed by 30 TAC Chapter 122. The major differences between the two permitting programs are listed in the table below:

NSR Permit	Federal Operating Permit(FOP)
Issued Prior to new Construction or modification	For initial permit with application shield, can be issued
of an existing facility	after operation commences; significant revisions require
	approval prior to operation.
Authorizes air emissions	Codifies existing applicable requirements, does not
	authorize new emissions
Ensures issued permits are protective of the	Applicable requirements listed in permit are used by the
environment and human health by conducting a health effects review and that requirement for	inspectors to ensure proper operation of the site as authorized. Ensures that adequate monitoring is in
best available control technology (BACT) is	place to allow compliance determination with the FOP.
implemented.	place to allow compliance determination with the FOP.
Up to two Public notices may be required.	One public notice required. Opportunity for public
Opportunity for public comment and contested	comments. No contested case hearings.
case hearings for some authorizations.	
Applies to all point source emissions in the state.	Applies to all major sources and some non-major sources
	identified by the EPA.
Applies to facilities: a portion of site or individual	One or multiple FOPs cover the entire site (consists of
emission sources	multiple facilities)
Permits include terms and conditions under	Permits include terms and conditions that specify the
which the applicant must construct and operate	general operational requirements of the site; and also
its various equipment and processes on a facility basis.	include codification of all applicable requirements for emission units at the site.
Opportunity for EPA review for Federal	Opportunity for EPA review, Affected states review, and
Prevention of Significant Deterioration (PSD)	a Public petition period for every FOP.
and Nonattainment (NA) permits for major	a rubile petition period for every FOr.
sources.	
Permits have a table listing maximum emission	Permit has an applicable requirements table and
limits for pollutants	Periodic Monitoring (PM) / Compliance Assurance
	Monitoring (CAM) tables which document applicable
	monitoring requirements.
Permits can be altered or amended upon	Permits can be revised through several revision
application by company. Permits must be issued	processes, which provide for different levels of public
before construction or modification of facilities	notice and opportunity to comment. Changes that would
can begin.	be significant revisions require that a revised permit be
	issued before those changes can be operated.
NSR permits are issued independent of FOP	FOP are independent of NSR permits, but contain a list
requirements.	of all NSR permits incorporated by reference

#### **New Source Review Requirements**

Below is a list of the New Source Review (NSR) permits for the permitted area. These NSR permits are incorporated by reference into the operating permit and are enforceable under it. These permits can be found in the main TCEQ file room, located on the first floor of Building E, 12100 Park 35 Circle, Austin, Texas. The

Public Education Program may be contacted at 1-800-687-4040 or the Air Permits Division (APD) may be contacted at 1-512-239-1250 for help with any question.

Additionally, the site contains emission units that are permitted by rule under the requirements of 30 TAC Chapter 106, Permits by Rule. The following table specifies the permits by rule that apply to the site. All current permits by rule are contained in Chapter 106. Outdated 30 TAC Chapter 106 permits by rule may be viewed at the following Web site:

www.tceq.texas.gov/permitting/air/permitbyrule/historical\_rules/old106list/index106.html

Outdated Standard Exemption lists may be viewed at the following Web site:

www.tceq.texas.gov/permitting/air/permitbyrule/historical rules/oldselist/se index.html

The status of air permits and applications and a link to the Air Permits Remote Document Server is located at the following Web site:

www.tceq.texas.gov/permitting/air/nav/air\_status\_permits.html

Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.			
Authorization No.: 2271	Issuance Date: 02/26/2013		
Permits By Rule (30 TAC Chapter 106) for the Application Area			
Number: 106.261	Version No./Date: 11/01/2003		
Number: 106.262	Version No./Date: 11/01/2003		
Number: 106.263	Version No./Date: 11/01/2001		
Number: 106.454	Version No./Date: 11/01/2001		
Number: 106.472	Version No./Date: 09/04/2000		
Number: 106.511	Version No./Date: 09/04/2000		

#### **Emission Units and Emission Points**

In air permitting terminology, any source capable of generating emissions (for example, an engine or a sandblasting area) is called an Emission Unit. For purposes of Title V, emission units are specifically listed in the operating permit when they have applicable requirements other than New Source Review (NSR), or when they are listed in the permit shield table.

The actual physical location where the emissions enter the atmosphere (for example, an engine stack or a sand-blasting yard) is called an emission point. For New Source Review preconstruction permitting purposes, every emission unit has an associated emission point. Emission limits are listed in an NSR permit, associated with an emission point. This list of emission points and emission limits per pollutant is commonly referred to as the "Maximum Allowable Emission Rate Table", or "MAERT" for short. Specifically, the MAERT lists the Emission Point Number (EPN) that identifies the emission point, followed immediately by the Source Name, identifying the emission unit that is the source of those emissions on this table.

Thus, by reference, an emission unit in a Title V operating permit is linked by reference number to an NSR authorization, and its related emission point.

## **Monitoring Sufficiency**

Federal and state rules, 40 CFR § 70.6(a)(3)(i)(B) and 30 TAC § 122.142(c) respectively, require that each federal operating permit include additional monitoring for applicable requirements that lack periodic or instrumental monitoring (which may include recordkeeping that serves as monitoring) that yields reliable data from a relevant time period that are representative of the emission unit's compliance with the applicable emission limitation or standard. Furthermore, the federal operating permit must include compliance assurance monitoring (CAM) requirements for emission sources that meet the applicability criteria of 40 CFR Part 64 in accordance with 40 CFR § 70.6(a)(3)(i)(A) and 30 TAC § 122.604(b).

With the exception of any emission units listed in the Periodic Monitoring or CAM Summaries in the FOP, the TCEQ Executive Director has determined that the permit contains sufficient monitoring, testing, recordkeeping, and reporting requirements that assure compliance with the applicable requirements. If applicable, each emission unit that requires additional monitoring in the form of periodic monitoring or CAM is described in further detail under the Rationale for CAM/PM Methods Selected section following this paragraph.

# Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected

## **Compliance Assurance Monitoring (CAM):**

Compliance Assurance Monitoring (CAM) is a federal monitoring program established under Title 40 Code of Federal Regulations Part 64 (40 CFR Part 64).

Emission units are subject to CAM requirements if they meet the following criteria:

- 1. the emission unit is subject to an emission limitation or standard for an air pollutant (or surrogate thereof) in an applicable requirement;
- 2. the emission unit uses a control device to achieve compliance with the emission limitation or standard specified in the applicable requirement; and
- 3. the emission unit has the pre-control device potential to emit greater than or equal to the amount in tons per year for a site to be classified as a major source.

The following table(s) identify the emission unit(s) that are subject to CAM:

Unit/Group/Process Information			
ID No.: GRP NTA-CMPUH2			
Control Device ID No.: 55H2	Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer)		
Applicable Regulatory Requirement			
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-3		
Pollutant: VOC	Main Standard: § 115.121(a)(1)		
Monitoring Information			
Indicator: Combustion Temperature / Exhaust Gas Temperature			
Minimum Frequency: four times per hour			
Averaging Period: one hour			
Deviation Limit: Temperature > 1450 F			
Racis of CAM. It is widely practiced and accepted to use performance tests, manufacturar's			

Basis of CAM: It is widely practiced and accepted to use performance tests, manufacturer's recommendations, engineering calculations and/or historical data to establish a minimum temperature for thermal incinerators. This minimum temperature must be maintained in order for the proper destruction efficiency. Operation below the minimum combustion temperature will result in incomplete combustion and potential noncompliance with emission limitations and/or standards. The monitoring of the combustion temperature of a thermal incinerator is commonly required in federal and state rules, including: 40 CFR Part 60, Subparts III, NNN, QQQ, and RRR; 40 CFR Part 61, Subparts BB and FF; 40 CFR Part 63, Subparts G, R, DD, EE, and HH; and 30 TAC Chapter 115.

Unit/Group/Process Information			
ID No.: HMTA CMPU			
Control Device ID No.: 55H2	Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer)		
Applicable Regulatory Requirement			
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-1		
Pollutant: VOC	Main Standard: § 115.121(a)(2)		
Monitoring Information			
Indicator: Combustion Temperature / Exhaust Gas Temperature			
Minimum Frequency: four times per hour			
Averaging Period: one hour			
Deviation Limit: Temperature > 1450 F			

Basis of CAM: It is widely practiced and accepted to use performance tests, manufacturer's recommendations, engineering calculations and/or historical data to establish a minimum temperature for thermal incinerators. This minimum temperature must be maintained in order for the proper destruction efficiency. Operation below the minimum combustion temperature will result in incomplete combustion and potential noncompliance with emission limitations and/or standards. The monitoring of the combustion temperature of a thermal incinerator is commonly required in federal and state rules, including: 40 CFR Part 60, Subparts III, NNN, QQQ, and RRR; 40 CFR Part 61, Subparts BB and FF; 40 CFR Part 63, Subparts G, R, DD, EE, and HH; and 30 TAC Chapter 115.

Compliance Review
1. In accordance with 30 TAC Chapter 60, the compliance history was reviewed on <u>April 13, 2015.</u>
Site rating: 14.64 / Satisfactory Company rating: 14.64 / Satisfactory
(High < 0.10; Satisfactory $\geq$ 0.10 and $\leq$ 55; Unsatisfactory $>$ 55)
2. Has the permit changed on the basis of the compliance history or site/company rating?
Site/Permit Area Compliance Status Review
1. Were there any out-of-compliance units listed on Form OP-ACPS?
2. Is a compliance plan and schedule included in the permit?No
Available Unit Attribute Forms
OP-UA1 - Miscellaneous and Generic Unit Attributes
OP-UA2 - Stationary Reciprocating Internal Combustion Engine Attributes
OP-UA3 - Storage Tank/Vessel Attributes
OP-UA4 - Loading/Unloading Operations Attributes
OP-UA5 - Process Heater/Furnace Attributes
OP-UA6 - Boiler/Steam Generator/Steam Generating Unit Attributes
OP-UA7 - Flare Attributes
OP-UA8 - Coal Preparation Plant Attributes
OP-UA9 - Nonmetallic Mineral Process Plant Attributes
OP-UA10 - Gas Sweetening/Sulfur Recovery Unit Attributes
OP-UA11 - Stationary Turbine Attributes
OP-UA12 - Fugitive Emission Unit Attributes
OP-UA13 - Industrial Process Cooling Tower Attributes
OP-UA14 - Water Separator Attributes
OP-UA15 - Emission Point/Stationary Vent/Distillation Operation/Process Vent Attributes
OP-UA16 - Solvent Degreasing Machine Attributes
OP-UA17 - Distillation Unit Attributes
OP-UA18 - Surface Coating Operations Attributes
OP-UA19 - Wastewater Unit Attributes
OP-UA20 - Asphalt Operations Attributes OP-UA21 - Grain Elevator Attributes
OP-UA22 - Printing Attributes
OP-UA24 - Wool Fiberglass Insulation Manufacturing Plant Attributes
OP-UA25 - Synthetic Fiber Production Attributes
OP-UA26 - Electroplating and Anodizing Unit Attributes
OP-UA27 - Nitric Acid Manufacturing Attributes
OP-UA28 - Polymer Manufacturing Attributes
OP-UA29 - Glass Manufacturing Unit Attributes
OP-UA30 - Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mill Attributes
OP-UA31 - Lead Smelting Attributes
OP-UA32 - Copper and Zinc Smelting/Brass and Bronze Production Attributes
OP-UA33 - Metallic Mineral Processing Plant Attributes
OP-UA34 - Pharmaceutical Manufacturing
OP-UA35 - Incinerator Attributes
OP-UA36 - Steel Plant Unit Attributes
OP-UA37 - Basic Oxygen Process Furnace Unit Attributes
OP-UA38 - Lead-Acid Battery Manufacturing Plant Attributes
OP-UA39 - Sterilization Source Attributes
OP-UA40 - Ferroalloy Production Facility Attributes
OP-UA41 - Dry Cleaning Facility Attributes
OP-UA42 - Phosphate Fertilizer Manufacturing Attributes
OP-UA43 - Sulfuric Acid Production Attributes

- OP-UA44 Municipal Solid Waste Landfill/Waste Disposal Site Attributes
- OP-UA45 Surface Impoundment Attributes
- OP-UA46 Epoxy Resins and Non-Nylon Polyamides Production Attributes
- OP-UA47 Ship Building and Ship Repair Unit Attributes
- OP-UA48 Air Oxidation Unit Process Attributes
- OP-UA49 Vacuum-Producing System Attributes
- OP-UA50 Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
- OP-UA51 Dryer/Kiln/Oven Attributes
- OP-UA52 Closed Vent Systems and Control Devices
- OP-UA53 Beryllium Processing Attributes
- OP-UA54 Mercury Chlor-Alkali Cell Attributes
- OP-UA55 Transfer System Attributes
- OP-UA56 Vinyl Chloride Process Attributes
- OP-UA57 Cleaning/Depainting Operation Attributes
- **OP-UA58 Treatment Process Attributes**
- OP-UA59 Coke By-Product Recovery Plant Attributes
- OP-UA60 Chemical Manufacturing Process Unit Attributes
- OP-UA61 Pulp, Paper, or Paperboard Producing Process Attributes
- OP-UA62 Glycol Dehydration Unit Attributes
- OP-UA63 Vegetable Oil Production Attributes